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ANALYTICAL REPORT

TETRA TECH
CORDELL RENNER

1 S WACKER DRIVE

SUITE 3700

CHICAGO, IL 60606

Project Name: EAST CHICAGO ARCELOR MYSTERY SPILL

Project Phase: EAST CHICAGO, IL

Contract #: 3034

Project #: 3X90260001S051404004

Folder #: 124896

Purchase Order #: 1111200

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Arrival Temperature: 4.9

Report Date: 02/01/2017

Date Received: 01/19/2017

Reprint Date: 03/02/2017

Result	Units	DL										
		DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analys	t Method	
0.0300	mg/L	0.02	0.02	0.02	0.02	1.00			1/23/17 15:00	SAW	SM 4500CL	
<1.4	mg/L	1.4	2.8	9.2	1.4	1.00	U	01/24/2017 08:30	1/25/17 10:00	BMM	EPA 1664A	^
<14	ug/L	14	25	50	50	1.00	U	01/24/2017 09:00	1/26/17 13:18	MER	EPA 9066	^
0.046	ug/L	0.030	0.060	0.12	0.12	1.00	J M	01/26/2017 10:30	1/27/17 11:59) LJF	EPA 7470A	٨
	<1.4 <14	<1.4 mg/L <14 ug/L	<1.4 mg/L 1.4 <14 ug/L 14	<1.4 mg/L 1.4 2.8 <14 ug/L 14 25	<1.4 mg/L 1.4 2.8 9.2 <14 ug/L 14 25 50	<1.4 mg/L 1.4 2.8 9.2 1.4 <14 ug/L 14 25 50 50	<1.4 mg/L 1.4 2.8 9.2 1.4 1.00 <14 ug/L 14 25 50 50 1.00	<1.4 mg/L 1.4 2.8 9.2 1.4 1.00 U <14 ug/L 14 25 50 50 1.00 U	<1.4 mg/L 1.4 2.8 9.2 1.4 1.00 U 01/24/2017 08:30 <14 ug/L 14 25 50 50 1.00 U 01/24/2017 09:00	<1.4 mg/L 1.4 2.8 9.2 1.4 1.00 U 01/24/2017 08:30 1/25/17 10:00 <14 ug/L 14 25 50 50 1.00 U 01/24/2017 09:00 1/26/17 13:18	<1.4 mg/L 1.4 2.8 9.2 1.4 1.00 U 01/24/2017 08:30 1/25/17 10:00 BMM <14 ug/L 14 25 50 50 1.00 U 01/24/2017 09:00 1/26/17 13:18 MER	<1.4 mg/L 1.4 2.8 9.2 1.4 1.00 U 01/24/2017 08:30 1/25/17 10:00 BMM EPA 1664A <14 ug/L 14 25 50 50 1.00 U 01/24/2017 09:00 1/26/17 13:18 MER EPA 9066

CT LAB#: 828860	Sample Description	n: AM-OF009	C-01		Clie	ent Sample #:				Sampled: 01/17/2017	1040	
Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Analys Date/Time	t Method	
Inorganic Results												
Ammonia Nitrogen	1.6	mg/L	0.022	0.10	0.20	0.20	1.00			1/26/17 12:21 LJS	EPA 350.1	Λ
Total Suspended Solids	<2.0	mg/L	2.0	2.0	2.0	2.0	1.00	U		1/20/17 11:50 SAW	SM 2540D	

Metals Results

 $Unless \ specifically \ stated \ to \ the \ contrary, \ soil/sediment/sludge \ sample \ results \ reported \ on \ a \ Dry \ Weight \ Basis$



delivering more than data from your environmental analyses

TETRA TECH

Project Name: EAST CHICAGO ARCELOR MYSTERY SPILL

Project Phase: EAST CHICAGO, IL Project #: 3X90260001S051404004 Contract #: 3034 Folder #: 124896

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CT LAB#: 828860	Sample Description:	: AM-OF009	C-01		Clie	nt Sample #:				Sampled: 01/1	7/2017 1	1040	
Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	: M etho	od
Total Lead	<1.4	ug/L	1.4	2.0	4.0	4.0	1.00	U	01/23/2017 15:00	1/24/17 19:36	NAH	EPA 6010C	
Total Zinc	<1.6	ug/L	1.6	5.0	10	10	1.00	U	01/23/2017 15:00	1/24/17 19:36	NAH	EPA 6010C	
CT LAB#: 828861	Sample Description:	: AM-OF010	-02		Clie	nt Sample #:			Sampled: 01/17/2017 1045				
Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Metho	od
Inorganic Results													
Chlorine, Residual	0.0400	mg/L	0.02	0.02	0.02	0.02	1.00			1/23/17 15:00	SAW	SM 4500CL	
Oil and Grease	<1.4	mg/L	1.4	2.8	9.3	1.4	1.00	U	01/24/2017 08:30	1/25/17 10:00	вмм	EPA 1664A	
Phenolics	<14	ug/L	14	25	50	50	1.00	UM	01/24/2017 09:00	1/26/17 13:19	MER	EPA 9066	
Metals Results													
Total Mercury	<0.030	ug/L	0.030	0.060	0.12	0.12	1.00	U	01/26/2017 10:30	1/27/17 12:08	LJF	EPA 7470A	
CT LAB#: 828862	Sample Description:	: AM-OF010	C-01		Clie	nt Sample #:				Sampled: 01/1	7/2017 1	1050	
Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	: M etho	od
Inorganic Results													
Ammonia Nitrogen	<0.022	mg/L	0.022	0.10	0.20	0.20	1.00	U		1/26/17 12:28	LJS	EPA 350.1	
Total Suspended Solids	<2.0	mg/L	2.0	2.0	2.0	2.0	1.00	U		1/20/17 11:50	SAW	SM 2540D	
Metals Results													
Total Lead	<1.4	ug/L	1.4	2.0	4.0	4.0	1.00	U	01/23/2017 15:00	1/24/17 20:18	NAH	EPA 6010C	
Total Zinc	<1.6	ug/L	1.6	5.0	10	10	1.00	U	01/23/2017 15:00	1/24/17 20:18	NAH	EPA 6010C	



Notes:

^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method. DL (detection limit), LOD (limit of detection), loq (limit of quantitation) as defined by most recent DOD QSM version.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for the parameters where accreditation is required or available, unless noted in the case narrative.

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Submitted by:

Brett M. Szymanski Project Manager 608-356-2760

Code	QC Qualifiers Description
В	Analyte detected in the associated Method Blank.
c	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe. No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
Н	Holding time exceeded.
1	BOD incubator temperature was outside acceptance limits during test period.
	Estimated value.
i	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N.	Insufficient BOD oxygen depletion.
0	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
т	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
w	Sample amount received was below program minimum.
х	Analyte exceeded calibration range.
Υ	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.
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Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

